

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/16816

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L33/00 H01L21/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/001162 A1 (UDAGAWA TAKASHI) 2 January 2003 (2003-01-02) paragraph '0046! - paragraph '0064!; figure 1 ---	1-21
A	EP 0 395 392 A (TOKYO SHIBAURA ELECTRIC CO) 31 October 1990 (1990-10-31) column 7, line 13 - line 30; figure 1 ---	1-21
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 01, 30 January 1998 (1998-01-30) & JP 09 232685 A (TOSHIBA CORP), 5 September 1997 (1997-09-05) abstract --- -/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

14 April 2004

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21/04/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 2002/000563 A1 (UDAGAWA TAKASHI)  3 January 2002 (2002-01-03)  abstract</p> <p style="text-align: center;">-----</p>	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2003001162	A1	02-01-2003	JP	2003017737 A	17-01-2003
EP 0395392	A	31-10-1990	JP	2288388 A	28-11-1990
			JP	2809691 B2	15-10-1998
			DE	69029340 D1	23-01-1997
			DE	69029340 T2	30-04-1997
			EP	0395392 A2	31-10-1990
			US	5042043 A	20-08-1991
JP 09232685	A	05-09-1997	NONE		
US 2002000563	A1	03-01-2002	JP	2002084001 A	22-03-2002
			TW	535302 B	01-06-2003